



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

P.O. BOX 618, NORTH COUNTRY ROAD • WADING RIVER, N.Y. 11792

JOHN D. LEONARD, JR.
VICE PRESIDENT - NUCLEAR OPERATIONS

July 23, 1985

SNRC-1197

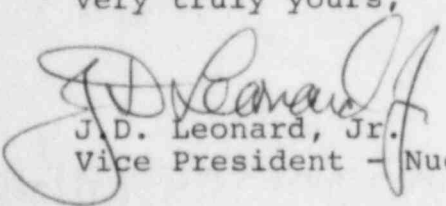
Dr. Thomas E. Murley
Office of Inspection & Enforcement
Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Coils for Motor Control Centers
Notification of Deviation Per 10CFR21
SHOREHAM NUCLEAR POWER STATION
Docket No. 50-322

Dear Dr. Murley:

Enclosed herewith is one (1) copy of the written report for the subject reportable condition. Initial notification was made verbally in a telephone conversation between your Mr. J. Strosnider and Mr. J. Smith of LILCO on July 19, 1985. This report is being submitted in accordance with the requirements of 10CFR21.

Should you have any questions, please contact this office.
Very truly yours,


J.D. Leonard, Jr.
Vice President - Nuclear Operations

RWG/cj

cc: James M. Taylor - Director, Office of Inspection and
Enforcement - 3 copies

R. Caruso
J. Berry
J. Strosnider

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July 19, 1985

10CFR21 Report Coils for 480 Volt Motor Control Centers

This Report is being submitted to discuss a potential problem that existed in the procurement and installation of coils and starters for 480 volt motor control centers (MCCs). These coils and starters were supplied through Square D Co., Mineola, N.Y.

To assure operability of safety related equipment supplied from the 480 Volt MCCs during plant low voltage conditions, safety related size 1 MCC starters and contactors are required to be equipped with operating coils rated for 77.5% voltage operation.

These coils are non-standard coils (i.e., not a vendor catalogue item). The standard vendor catalogue coils are only rated for 85% voltage operation. The potential for in plant voltage levels resulting in low control voltages is a recognized plant condition, and therefore, the requirement for coils with specific voltage ratings was included in purchase specifications.

In early March, a situation was identified where replacement coils for safety related size 1 starters did not have the same vendor part number as the existing installed coils. Further investigation revealed the LILCO Materials and Stock (M&S) number for these coils incorrectly listed the standard vendor catalogue number and not the specialty number. The purchase order for replacement coils therefore specified standard catalogue coils. The vendor supplied the standard coil (a total of 13 coils/ starters were received), although certification documents for the proper replacement coil in accordance with specification requirements were also received. These coils were installed in the MCCs for three valves. These individual installations were reviewed and it was determined that a reportable condition did not exist. However, since these coils could have been installed in other safety related MCCs, further evaluation was performed. This evaluation, which was concluded on July 19, determined that a substantial safety hazard could have existed if this situation had gone uncorrected and these coils had been installed in other safety related MCCs. Therefore, this condition is being reported under 10CFR21. A list of the equipment having these size 1 starters is included as Attachment 1.

In order to rectify this situation, the following actions are being taken:

1. LILCO M&S numbers for these coils and contactors have been revised to reflect the utilization of the lower rated voltage coils.
2. The QA Department will verify that the incorrect coils that were received and that are now in storage have been downgraded to non-safety related and transferred to the non-safety related stock.

3. Applicable programs and controls were in effect such that confidence exists that all improper installed coils have been identified and replaced. In spite of this, LILCO will perform an inspection of an appropriately sized sample of installed coils to ensure that the correct coil is installed.
4. Procurement procedures shall be revised to ensure that manufacturer/vendor correspondence, relative to ordering description changes for safety related material and equipment, will be directed to Nuclear Engineering Department for review, and subsequent incorporation into the applicable procurement documents as appropriate.

Modified procurement documents shall provide the necessary traceability and auditable control.

The vendor has been verbally informed of the certification error.

It should be noted that considerable discussion had taken place within LILCO regarding whether this should be reported under the Licensee Event Report system or 10CFR21. It was determined, however, that 10CFR50.73, specifically section (a)(2)(v) did not apply in that the installation of the coils in three MCC's could not at that time (initial criticality) have prevented the fulfillment of the safety function of required systems, as described in section (a)(2)(v).

Attachment I

QA Cat I Load Having Size 1 Starter in MCC

<u>Equipment</u>	<u>Power Source</u>
1B21*MOV031	MCC1118
1B21*MOV034	MCC1113
1B21*MOV035A	MCC1118
1B21*MOV035B	MCC1128
1B21*MOV061	MCC112W
1B21*MOV062	MCC1121
1B21*MOV063	MCC112W
1B21*MOV064	MCC112W
1B21*MOV068A	MCC1114
1B21*MOV068B	MCC1114
1B21*MOV068C	MCC1114
1B21*MOV068D	MCC1114
1B21*MOV083	MCC1113
1B21*MOV084	MCC1123
1B21*MOV085	MCC1113
1D11*MOV032A	MCC1111
1D11*MOV032B	MCC1124
1D11*MOV033A	MCC1111
1D11*MOV033B	MCC1124
1E11*MOV031A	MCC1113
1E11*MOV031B	MCC1122
1E11*MOV031C	MCC1113
1E11*MOV031D	MCC1122
1E11*MOV032A	MCC1112
1E11*MOV032B	MCC1122
1E11*MOV032C	MCC1113
1E11*MOV032D	MCC1122
1E11*MOV033A	MCC1119
1E11*MOV033B	MCC1129
1E11*MOV035A	MCC1117
1E11*MOV035B	MCC1127
1E11*MOV039A	MCC1118
1E11*MOV039B	MCC1128
1E11*MOV040A	MCC1112
1E11*MOV040B	MCC1122

QA Cat I Load Having Size 1 Starter in MCC

<u>Equipment</u>	<u>Power Source</u>
1E11*MOV041A	MCC1111
1E11*MOV041B	MCC1121
1E11*MOV043A	MCC1119
1E11*MOV043B	MCC1129
1E11*MOV044A	MCC1111
1E11*MOV044B	MCC1121
1E11*MOV045A	MCC111X
1E11*MOV045B	MCC112Y
1E11*MOV049	MCC1117
1E11*MOV052	MCC1121
1E11*MOV054	MCC1118
1E11*MOV055A	MCC1119
1E11*MOV055B	MCC1129
1E11*MOV056A	MCC1119
1E11*MOV056B	MCC1129
1E11*MOV057A	MCC1117
1E11*MOV057B	MCC1129
1E11*MOV081A	MCC1113
1E11*MOV081B	MCC1118
1E21*MOV031A	MCC1117
1E21*MOV031B	MCC1127
1E21*MOV033A	MCC1113
1E21*MOV033B	MCC1123
1E21*MOV034A	MCC1117
1E21*MOV034B	MCC1127
1E21*MOV035A	MCC1111
1E21*MOV035B	MCC1121
1E21*MOV081A	MCC1113
1E21*MOV081B	MCC1123
1E21*PO49A	MCC1117
1E21*PO49B	MCC1127
1E32*BL013	MCC112X
1E32*BL014A	MCC111Y
1E32*BL014B	MCC111Y
1E32*MOV021A	MCC112X
1E32*MOV021B	MCC112X
1E32*MOV021C	MCC112X
1E32*MOV021D	MCC1123
1E32*MOV022A	MCC112X
1E32*MOV022B	MCC112X
1E32*MOV022C	MCC112X

QA Cat I Load Having Size 1 Starter in MCC

<u>Equipment</u>	<u>Power Source</u>
1E32*MOV022D	MCC1123
1E32*MOV023A	MCC112X
1E32*MOV023B	MCC112X
1E32*MOV023C	MCC112X
1E32*MOV023D	MCC1123
1E32*MOV024	MCC111Z
1E32*MOV025	MCC111Z
1E32*MOV026	MCC111Z
1E32*MOV027	MCC111Z
1E32*HC-053A	MCC112X
1E32*HC-053B	MCC1123
1E32*HC-053C	MCC1122
1E32*HC-053D	MCC112X
1E41*MOV047	MCC1118
1E41*P050	MCC1127
1E51*MOV041	MCC1118
1E51*MOV047	MCC1128
1E51*P051	MCC1111
1G11*MOV246	MCC1111
1G11*MOV247	MCC1121
1G11*MOV248	MCC1111
1G11*MOV249	MCC1121
1G11*MOV639C	MCC111W
1G33*MOV030A	MCC1118
1G33*MOV030B	MCC1128
1G33*MOV031	MCC1118
1G33*MOV032	MCC1113
1G33*MOV033	MCC1113
1G33*MOV041	MCC1128

QA Cat I Load Having Size 1 Starter in MCC

<u>Equipment</u>	<u>Power Source</u>
1G41*MOV032A	MCC1114
1G41*MOV032B	MCC1124
1G41*MOV033A	MCC1117
1G41*MOV033B	MCC1127
1G41*MOV034A	MCC1117
1G41*MOV034B	MCC1127
1M50*MOV031A	MCC1116
1M50*MOV031B	MCC1126
1M50*MOV032A	MCC1116
1M50*MOV032B	MCC1126
1M50*MOV033A	MCC1116
1M50*MOV033B	MCC1126
1M50*MOV034A	MCC1116
1M50*MOV034B	MCC1126
1M50*P231A	MCC1116
1M50*P231B	MCC1126
1M50*P233A	MCC1134
1M50*P233B	MCC1134
1H11*MOV031A	MCC1111
1H11*MOV031B	MCC1111
1H11*MOV036	MCC1117
1H11*MOV041	MCC1117
1P41*MOV031A	MCC1110
1P41*MOV031B	MCC1120
1P41*MOV031C	MCC1133
1P41*MOV031D	MCC1133
1P41*MOV032A	MCC1110
1P41*MOV032B	MCC1120
1P41*MOV033A	MCC1119
1P41*MOV033B	MCC1129
1P41*MOV033C	MCC1119
1P41*MOV033D	MCC1129
1P41*MOV034A	MCC1112
1P41*MOV034B	MCC1128
1P41*MOV035A	MCC1110

QA Cat I Load Having Size 1 Starter in MCC

<u>Equipment</u>	<u>Power Source</u>
1P41*MOV035B	MCC1120
1P41*MOV036A	MCC1116
1P41*MOV036B	MCC1126
1P41*MOV036C	MCC1134
1P41*MOV037A	MCC1112
1P41*MOV037B	MCC1128
1P41*MOV039A	MCC1119
1P41*MOV039B	MCC1129
1P41*MOV042A	MCC1119
1P41*MOV042B	MCC1129
1P41*MOV043	MCC1127
1P41*MOV102A	MCC1111
1P41*MOV102B	MCC1124
1P41*MOV129A	MCC111W
1P41*MOV129B	MCC112W
1P42*MOV031A	MCC1119
1P42*MOV031B	MCC1121
1P42*MOV032A	MCC1113
1P42*MOV032B	MCC1124
1P42*MOV033A	MCC1113
1P42*MOV033B	MCC1124
1P42*MOV034A	MCC1113
1P42*MOV034B	MCC1123
1P42*MOV035	MCC1128
1P42*MOV036	MCC1128
1P42*MOV041A	MCC1119
1P42*MOV041B	MCC1129
1P42*MOV042A	MCC1112
1P42*MOV042B	MCC1128
1P42*MOV043A	MCC1119
1P42*MOV043B	MCC1127
1P42*MOV044A	MCC1119
1P42*MOV044B	MCC1127
1P42*MOV047	MCC1123
1P42*MOV048	MCC1123
1P42*MOV147	MCC111Y
1P42*MOV148	MCC111Z
1P42*MOV231	MCC1128
1P42*MOV232	MCC1124
1P42*MOV233	MCC1124
1P42*MOV234	MCC1124

QA Cat I Load Having Size 1 Starter in MCC

<u>Equipment</u>	<u>Power Source</u>
1P42*MOV235	MCC1124
1P42*MOV236	MCC1123
1P42*MOV237	MCC1123
1P42*MOV238	MCC1123
1P42*MOV239	MCC1123
1P42*MOV240	MCC1123
1P50*MOV103A	MCC1112
1P50*MOV103B	MCC1112
1P50*MOV104	MCC1112
1P50*MOV105A	MCC1113
1P50*MOV105B	MCC1122
1P50*MOV106	MCC1129
1P50*MOV113A	MCC1112
1P50*MOV113B	MCC1123
1P50*MOV114A	MCC1118
1P50*MOV114B	MCC1123
1R43*C003A	MCC1116
1R43*C003B	MCC1126
1R43*C003C	MCC1134
1R43*C004A	MCC1116
1R43*C004B	MCC1126
1R43*C004C	MCC1134
1R43*H012A	MCC1116
1R43*H012B	MCC1126
1R43*H012C	MCC1134
1R43*H912A	MCC111T
1R43*H912B	MCC112T
1R43*H912C	MCC113T
1R43*P201A	MCC1116
1R43*P201B	MCC1126
1R43*P201C	MCC1134
1R43*P202A	MCC1116
1R43*P202B	MCC1126
1R43*P202C	MCC1134
1R43*P226A	MCC1116
1R43*P226B	MCC1126
1R43*P226C	MCC1134
1R43*P238A	MCC1116
1R43*P238B	MCC1126

QA Cat I Load Having Size 1 Starter in MCC

<u>Equipment</u>	<u>Power Source</u>
1R43*P238C	MCC1134
1R43*P905A	MCC111T
1R43*P905B	MCC112T
1R43*P905C	MCC113T
1R43*P910A	MCC111T
1R43*P910B	MCC112T
1R43*P910C	MCC113T
1R43*P926A	MCC111T
1R43*P926B	MCC112T
1R43*P926C	MCC113T
1R43*P938A	MCC111T
1R43*P938B	MCC112T
1R43*P938C	MCC113T
1T23*MOV031A	MCC1118
1T23*MOV031B	MCC1128
1T46*FN079A	MCC1112
1T46*FN079B	MCC1122
1T46*UC020A	MCC1118
1T46*UC020B	MCC1128
1T46*UC021A	MCC111W
1T46*UC021B	MCC112W
1T46*UC022A	MCC1131
1T46*UC022B	MCC1131
1T46*UC023	MCC112B
1T48*MOV004	MCC1129
1T48*MOV031A	MCC1113
1T48*MOV031B	MCC1123
1T48*MOV032A	MCC1113
1T48*MOV032B	MCC1123
1T48*MOV033A	MCC1118
1T48*MOV033B	MCC1128
1T48*MOV034A	MCC1118
1T48*MOV034B	MCC1128
1T48*MOV035A	MCC1118
1T48*MOV035B	MCC1128
1T48*MOV037A	MCC1113

QA Cat I Load Having Size 1 Starter in MCC

<u>Equipment</u>	<u>Power Source</u>
1T48*MOV037B	MCC1123
1T48*MOV038A	MCC1113
1T48*MOV038B	MCC1123
1T48*MOV040A	MCC1118
1T48*MOV040B	MCC1121
1T48*MOV041	MCC1123
1T48*MOV042	MCC1123
1T48*MOV043A	MCC1118
1T48*MOV043B	MCC1127
1T48*MOV044A	MCC1118
1T48*MOV044B	MCC1121
1X41*FN029A	MCC1116
1X41*FN029B	MCC1126
1X41*FN039A	MCC1116
1X41*FN039B	MCC1126
1X41*FN068A	MCC1110
1X41*FN068B	MCC1120
1X41*FN072A	MCC1115
1X41*FN072B	MCC1125
1X41*FN072C	MCC1133
1X61*FN025A	MCC1116
1X61*FN025B	MCC1126
1X61*MOV031A	MCC1115
1X61*MOV031B	MCC1125
1X61*MOV032A	MCC1115
1X61*MOV032B	MCC1125